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## ABSTRACT OF THE DISCLOSURE

A pulse transmitter includes a phase correction module configured for detecting a phase error between a transmit clock and a prescribed clock specification at a transmit clock instance. The transmit clock instance represents an instance in time in which the pulse transmitter is to transmit data according to the prescribed clock specification. The pulse transmitter also includes pulse shape tables, each configured for outputting a corresponding waveform sample set of a prescribed waveform relative to a corresponding phase offset. Hence, the pulse transmitter is able to compensate for phase differences between the transmit clock utilized by the pulse transmitter and the prescribed clock specification, by outputting a selected waveform sample set that has a corresponding phase offset that compensates for the detected phase error, optimizing the performance of pulse position modulation communications systems that are adversely affected by transmit jitter.